

## WEST Search History

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DATE: Thursday, June 24, 2004

Hide?	Set Name	Query	Hit Count
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L8	two adj2 more adj20 reverse transcriptase	43
<input type="checkbox"/>	L7	L4 and (two adj2 more adj20 reverse transcriptase)	38
<input type="checkbox"/>	L6	L4 and (two adj20 reverse transcriptase)	579
<input type="checkbox"/>	L5	L4 and (two or more adj20 reverse transcriptase)	14376
<input type="checkbox"/>	L4	L2 and (mmlv or rsv or amv or rav and mav or hiv)	15480
<input type="checkbox"/>	L3	L2 and (mmlv and rsv and amv and rav and mav and hiv)	6
<input type="checkbox"/>	L2	reverse transcriptase	27232
<input type="checkbox"/>	L1	reverse transcriptase	3

END OF SEARCH HISTORY

## Hit List

[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#)  
[Generate OACS](#)

**Search Results** - Record(s) 1 through 20 of 43 returned.

☐ 1. Document ID: US 20040116411 A1

**Using default format because multiple data bases are involved.**

L8: Entry 1 of 43

File: PGPB

Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040116411  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040116411 A1

TITLE: Combination HIV therapy including camptothecin

PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schochetman, Gerald	Libertyville	IL	US	
Chang, Lucy	San Mateo	CA	US	
Rubinfeld, Joseph	Danville	CA	US	

US-CL-CURRENT: [514/220](#); [514/283](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FWOC	Draw D
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☐ 2. Document ID: US 20040110201 A1

L8: Entry 2 of 43

File: PGPB

Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040110201  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040110201 A1

TITLE: Compositions and methods for cDNA synthesis

PUBLICATION-DATE: June 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rashtchian, Ayoub	Gaithersburg	MD	US	
Schuster, David M.	Poolesville	MD	US	

US-CL-CURRENT: [435/6](#); [435/91.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Know	Draw
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☐ 3. Document ID: US 20040055609 A1

L8: Entry 3 of 43

File: PGPB

Mar 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040055609

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040055609 A1

TITLE: Treatment of hepatitis C using hyperthermia

PUBLICATION-DATE: March 25, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Groth, Karl Emil	St. Paul	MN	US	
Kelly, Theodore Charles	Minnetonka	MN	US	
Westerbeck, Todd L.	Burnsville	MN	US	
Blick, Gary	Stamford	CT	US	

US-CL-CURRENT: 128/898

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Know	Draw
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☐ 4. Document ID: US 20040044016 A1

L8: Entry 4 of 43

File: PGPB

Mar 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040044016

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040044016 A1

TITLE: Antiviral agents

PUBLICATION-DATE: March 4, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yuasa, Satoshi	Kanagawa		JP	

US-CL-CURRENT: 514/269; 514/45, 514/50

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Know	Draw
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☐ 5. Document ID: US 20040043380 A1

L8: Entry 5 of 43

File: PGPB

Mar 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040043380  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040043380 A1

TITLE: T cell line and use thereof

PUBLICATION-DATE: March 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Miyake, Hiroshi	Kagoshima-shi		JP	
Iizawa, Yuji	Muko-shi		JP	
Baba, Masanori	Kagoshima-shi		JP	

US-CL-CURRENT: 435/5; 435/235.1, 435/372

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGURE	Draw De
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☐ 6. Document ID: US 20040033579 A1

L8: Entry 6 of 43

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040033579  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040033579 A1

TITLE: Substantially pure reverse transcriptases and methods of production thereof

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hughes, A. John JR.	Germantown	MD	US	

US-CL-CURRENT: 435/199; 435/252.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGURE	Draw De
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☐ 7. Document ID: US 20030198944 A1

L8: Entry 7 of 43

File: PGPB

Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030198944  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030198944 A1

TITLE: Compositions and methods for reverse transcription of nucleic acid molecules

PUBLICATION-DATE: October 23, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gerard, Gary F.	Frederick	MD	US	
Smith, Michael D.	Rockville	MD	US	
Chatterjee, Deb K.	North Potomac	MD	US	

US-CL-CURRENT: 435/5; 435/199, 435/6, 435/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw. De
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☐ 8. Document ID: US 20030190305 A1

L8: Entry 8 of 43

File: PGPB

Oct 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030190305

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030190305 A1

TITLE: Treatment of Kaposi's sarcoma with IL-12

PUBLICATION-DATE: October 9, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yarchoan, Robert	Bethesda	MD	US	
Pluda, James M.	Gaithersburg	MD	US	
Wyvill, Kathleen	Upper Marlboro	MD	US	
Lietzau, Jill	Columbia	MD	US	
Shearer, Gene M.	Bethesda	MD	US	
Feigal, Ellen	N. Potomac	MD	US	
Tosato, Giovanna	Bethesda	MD	US	
Little, Richard	Washington	DC	US	
Sherman, Matthew L.	Newton	MA	US	

US-CL-CURRENT: 424/85.2; 424/85.1, 514/23, 514/44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw. De
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☐ 9. Document ID: US 20030186270 A1

L8: Entry 9 of 43

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030186270

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030186270 A1

TITLE: Compositions and methods for reverse transcription of nucleic acid molecules

PUBLICATION-DATE: October 2, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gerard, Gary F.	Frederick	MD	US	
Smith, Michael D.	Rockville	MD	US	
Chatterjee, Deb K.	North Potomac	MD	US	

US-CL-CURRENT: [435/6](#); [435/199](#), [435/91.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw. De
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☐ 10. Document ID: US 20030113712 A1

L8: Entry 10 of 43

File: PGPB

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030113712

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030113712 A1

TITLE: Compositions and methods for reverse transcriptase-polymerase chain reaction (RT-PCR)

PUBLICATION-DATE: June 19, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lee, Jun E.	North Potomac	MD	US	
Rashtchian, Ayoub	Gaithersburg	MD	US	

US-CL-CURRENT: [435/5](#); [435/6](#), [435/91.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw. De
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☐ 11. Document ID: US 20030032086 A1

L8: Entry 11 of 43

File: PGPB

Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030032086

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030032086 A1

TITLE: COMPOSITIONS AND METHODS FOR REVERSE TRANSCRIPTION OF NUCLEIC ACID MOLECULES

PUBLICATION-DATE: February 13, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
GERARD, GARY F.	FREDERICK	MD	US	
SMITH, MICHAEL D.	ROCKVILLE	MD	US	
CHATTERJEE, DEB K.	NORTH POTOMAC	MD	US	

US-CL-CURRENT: 435/69.1; 435/252.3, 435/320.1, 435/325, 435/6, 435/68.1, 435/91.2,  
530/350, 536/23.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw D
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☐ 12. Document ID: US 20020192677 A1

L8: Entry 12 of 43

File: PGPB

Dec 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020192677  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020192677 A1

TITLE: Nucleic acid amplification with DNA-dependent RNA polymerase activity of RNA replicases

PUBLICATION-DATE: December 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dimond, Randall L.	Madison	WI	US	
Ekenberg, Steven J.	Mt. Horeb	WI	US	
Hartnett, James R.	Madison	WI	US	
Hudson, Geoffrey R.	Madison	WI	US	
Mendoza, Leopoldo G.	Madison	WI	US	
Miller, Katharine M.	Verona	WI	US	
Monahan, John E.	Walpole	MA	US	
Jones, Christopher L.	Madison	WI	US	
Maffitt, Mark A.	Madison	WI	US	
Martinelli, Richard A.	Brighton	MA	US	
Pahuski, Edward E.	Marshall	WI	US	
Schumm, James W.	Madison	WI	US	

US-CL-CURRENT: 435/6; 435/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw D
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☐ 13. Document ID: US 20020081581 A1

L8: Entry 13 of 43

File: PGPB

Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020081581  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020081581 A1

TITLE: COMPOSITIONS AND METHODS FOR REVERSE TRANSCRIPTION OF NUCLEIC ACID MOLECULES

PUBLICATION-DATE: June 27, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
GERARD, GARY F.	FREDERICK	MD	US	
SMITH, MICHAEL D.	ROCKVILLE	MD	US	
CHATTERJEE, DEB K.	NORTH POTOMAC	MD	US	

US-CL-CURRENT: 435/6; 435/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 14. Document ID: US 20020034757 A1

L8: Entry 14 of 43

File: PGPB

Mar 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020034757  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020034757 A1

TITLE: Single-molecule selection methods and compositions therefrom

PUBLICATION-DATE: March 21, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cubicciotti, Roger S.	Montclair	NJ	US	

US-CL-CURRENT: 435/6; 435/91.2, 536/22.1, 536/23.1, 536/24.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 15. Document ID: US 20020033181 A1

L8: Entry 15 of 43

File: PGPB

Mar 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020033181  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020033181 A1

TITLE: Treatment of hepatitis C using hyperthermia

PUBLICATION-DATE: March 21, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Groth, Karl Emil	St. Paul	MN	US	
Kelly, Theodore Charles	Minnetonka	MN	US	
Westerbeck, Todd L.	Burnsville	MN	US	
Blick, Gary	Stamford	CT	US	

US-CL-CURRENT: 128/898; 604/4.01, 604/6.13



Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 16. Document ID: US 20020002166 A1

L8: Entry 16 of 43

File: PGPB

Jan 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020002166

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020002166 A1

TITLE: Use of MKC-442 in combination with other antiviral agents

PUBLICATION-DATE: January 3, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Furman, Phillip A.	Durham	NC	US	
Moxham, Cary P.	Durham	NC	US	
Barry, David W.	Chapel Hill	NC	US	
Borroto-Esoda, Katyna	Raleigh	NC	US	

US-CL-CURRENT: 514/252.01; 514/263.36

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 17. Document ID: US 6703542 B1

L8: Entry 17 of 43

File: USPT

Mar 9, 2004

US-PAT-NO: 6703542

DOCUMENT-IDENTIFIER: US 6703542 B1

TITLE: Polyphenol oxidase genes

DATE-ISSUED: March 9, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Robinson; Simon Piers	Hyde Park			AU
Dry; Ian Barry	Melrose Park			AU

US-CL-CURRENT: 800/286; 435/252.3, 435/320.1, 435/468, 536/25.1, 800/298

## ABSTRACT:

A DNA sequence including a gene coding polypeptide having polyphenol oxidase (PPO) activity, or a fragment thereof.

21 Claims, 15 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 15

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw. De
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☐ 18. Document ID: US 6677140 B2

L8: Entry 18 of 43

File: USPT

Jan 13, 2004

US-PAT-NO: 6677140

DOCUMENT-IDENTIFIER: US 6677140 B2

TITLE: Nucleic acid amplification with DNA-dependent RNA polymerase activity of RNA replicases

DATE-ISSUED: January 13, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dimond; Randall L.	Madison	WI		
Ekenberg; Steven J.	Mt. Horeb	WI		
Hartnett; James R.	Madison	WI		
Hudson; Geoffrey R.	Madison	WI		
Mendoza; Leopoldo G.	Madison	WI		
Miller; Katharine M.	Verona	WI		
Monahan; John E.	Walpole	MA		
Jones; Christopher L.	Madison	WI		
Maffitt; Mark A.	Madison	WI		
Martinelli; Richard A.	Brighton	MA		
Pahuski; Edward E.	Marshall	WI		
Schumm; James W.	Madison	WI		

US-CL-CURRENT: 435/91.1; 435/6, 435/91.2, 536/22.1, 536/23.1, 536/24.3, 536/24.33

## ABSTRACT:

The present invention entails methods and kits for carrying them out based on the discovery that an RNA replicase, such as Q.beta. replicase, has DNA-dependent RNA polymerase ("DDRP") activity with nucleic acid segments, including DNA segments and DNA:RNA chimeric segments, which comprise a 2'-deoxyribonucleotide or an analog thereof and which have sequences of RNAs that are autocatalytically replicatable by the replicase.

20 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw. De
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☐ 19. Document ID: US 6644320 B2

L8: Entry 19 of 43

File: USPT

Nov 11, 2003

US-PAT-NO: 6644320

DOCUMENT-IDENTIFIER: US 6644320 B2

TITLE: Treatment of hepatitis C using hyperthermia

DATE-ISSUED: November 11, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Groth; Karl Emil	St. Paul	MN		
Kelly; Theodore Charles	Minnetonka	MN		
Westerbeck; Todd L.	Burnsville	MN		
Blick; Gary	Stamford	CT		

US-CL-CURRENT: 128/898; 604/6.13

## ABSTRACT:

The invention provides a method of treating a patient infected with hepatitis C virus (HCV) comprising raising the core temperature of the patient and then returning the core temperature of the patient to normal at least one time, wherein the core temperature is raised to a temperature range and a duration sufficient to reduce or eliminate the patient's viral load of HCV.

84 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw. Ds
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☐ 20. Document ID: US 6630333 B1

L8: Entry 20 of 43

File: USPT

Oct 7, 2003

US-PAT-NO: 6630333

DOCUMENT-IDENTIFIER: US 6630333 B1

TITLE: Substantially pure reverse transcriptases and methods of production thereof

DATE-ISSUED: October 7, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hughes, Jr.; A. John	Germantown	MD		

US-CL-CURRENT: 435/194

## ABSTRACT:

The present invention provides substantially pure reverse transcriptases, which are preferably substantially free from contamination with nucleic acids. The invention also provides methods for the production of these enzymes, and kits comprising these enzymes which may be used in synthesizing, amplifying or sequencing nucleic acid molecules including through the use of the polymerase chain reaction, particularly RT-PCR.

18 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw. De
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Clear	Generate Collection	Print	Fwd Refs	Blwd Refs	Generate OACS
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Terms	Documents
two adj2 more adj20 reverse transcriptase	43

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

## Hit List

[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#)  
[Generate OACS](#)

Search Results - Record(s) 21 through 40 of 43 returned.

☐ 21. Document ID: US 6518019 B2

Using default format because multiple data bases are involved.

L8: Entry 21 of 43

File: USPT

Feb 11, 2003

US-PAT-NO: 6518019

DOCUMENT-IDENTIFIER: US 6518019 B2

TITLE: Compositions and methods for reverse transcription of nucleic acid molecules

DATE-ISSUED: February 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gerard; Gary F.	Frederick	MD		
Smith; Michael D.	Rockville	MD		
Chatterjee; Deb K.	North Potomac	MD		

US-CL-CURRENT: 435/6; 435/91.1, 435/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWOC	Draw D
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☐ 22. Document ID: US 6509321 B1

L8: Entry 22 of 43

File: USPT

Jan 21, 2003

US-PAT-NO: 6509321

DOCUMENT-IDENTIFIER: US 6509321 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Treatment of Kaposi's sarcoma with IL-12

DATE-ISSUED: January 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yarchoan; Robert	Bethesda	MD		
Pluda; James M.	Gaithersburg	MD		
Wyvill; Kathleen	Upper Marlboro	MD		
Lietzau; Jill	Columbia	MD		
Shearer; Gene M.	Bethesda	MD		

Feigal; Ellen	N. Potomac	MD
Tosato; Giovanna	Bethesda	MD
Little; Richard	Washington	DC
Sherman; Matthew L.	Newton	MA

US-CL-CURRENT: 514/44; 424/85.1, 424/85.2, 514/23

## ABSTRACT:

Methods are provided for using IL-12 to treat Kaposi's sarcoma (KS), particularly AIDS-associated KS.

12 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGURE	Drawn Date
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☐ 23. Document ID: US 6495350 B1

L8: Entry 23 of 43

File: USPT

Dec 17, 2002

US-PAT-NO: 6495350

DOCUMENT-IDENTIFIER: US 6495350 B1

TITLE: Compositions comprising a M-MLV reverse transcriptase and a DNA polymerase and use thereof

DATE-ISSUED: December 17, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Jun E.	North Potomac	MD		
Rashtchian; Ayoub	Gaithersburg	MD		

US-CL-CURRENT: 435/91.2; 435/6, 435/7.1, 435/91.1, 435/91.51, 536/22.1, 536/23.1, 536/24.3, 536/24.31, 536/24.32, 536/24.33

## ABSTRACT:

The present invention is directed to compositions and methods useful for the amplification of nucleic acid molecules by reverse transcriptase-polymerase chain reaction (RT-PCR). Specifically, the invention provides compositions and methods for the amplification of nucleic acid molecules in a simplified one- or two-step RT-PCR procedure using combinations of reverse transcriptase and thermostable DNA polymerase enzymes in conjunction with sulfur-containing molecules or acetate-containing molecules (or combinations of such sulfur-containing molecules and acetate-containing molecules), and optionally bovine serum albumin. The invention thus facilitates the rapid and efficient amplification of nucleic acid molecules and the detection and quantitation of RNA molecules. The invention also is useful in the rapid production and amplification of cDNAs which may be used for a variety of industrial, medical and forensic purposes.

18 Claims, 8 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw. De
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☐ 24. Document ID: US 6440946 B1

L8: Entry 24 of 43

File: USPT

Aug 27, 2002

US-PAT-NO: 6440946  
DOCUMENT-IDENTIFIER: US 6440946 B1

TITLE: Multiple-agents-binding compound, production and use thereof

DATE-ISSUED: August 27, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kiso; Yoshiaki	Osaka			JP
Fujino; Masahiko	Hyogo			JP

US-CL-CURRENT: 514/45; 514/220, 514/230.5, 514/253.01, 514/46, 514/47, 514/48,  
514/49, 514/50, 514/51

ABSTRACT:

The present invention is to provide a multiple-agents-binding compound comprising a compound having anti-HIV activity and having no affinity for cell surface protein bound together with a same or different kind of at least one compound having anti-HIV activity and having no affinity for cell surface protein, or a salt thereof, and a pharmaceutical composition for the prevention or treatment of infectious diseases of HIV or AIDS comprising said multiple-agents-binding compound.

24 Claims, 0 Drawing figures  
Exemplary Claim Number: 12,15

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw. De
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☐ 25. Document ID: US 6423308 B1

L8: Entry 25 of 43

File: USPT

Jul 23, 2002

US-PAT-NO: 6423308  
DOCUMENT-IDENTIFIER: US 6423308 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Treatment of Kaposi's sarcoma with IL-12

DATE-ISSUED: July 23, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yarchoan; Robert	Bethesda	MD		
Pluda; James M.	Gaithersburg	MD		
Wyvill; Kathleen	Upper Marlboro	MD		
Lietzau; Jill	Columbia	MD		
Shearer; Gene M.	Bethesda	MD		
Feigal; Ellen	N. Potomac	MD		
Tosato; Giovanna	Bethesda	MD		
Little; Richard	Washington	DC		
Sherman; Matthew L.	Newton	MA		

US-CL-CURRENT: 424/85.2; 424/85.1

## ABSTRACT:

Methods are provided for using IL-12 to treat Kaposi's sarcoma (KS), particularly AIDS-associated KS.

12 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KOMC	Draw D
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☐ 26. Document ID: US 6415797 B1

L8: Entry 26 of 43

File: USPT

Jul 9, 2002

US-PAT-NO: 6415797

DOCUMENT-IDENTIFIER: US 6415797 B1

TITLE: Treatment of human herpesviruses using hyperthermia

DATE-ISSUED: July 9, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Groth; Karl Emil	St. Paul	MN		
Kelly; Theodore Charles	Minnetonka	MN		
Westerbeck; Todd L.	St. Paul	MN		
Blick; Gary	Stamford	CT		

US-CL-CURRENT: 128/898; 607/106

## ABSTRACT:

The invention provides a method of treating a patient infected with a human herpesvirus comprising raising the core temperature of the patient and then returning the core temperature of the patient to normal at least one time, wherein the core temperature is raised to a temperature range and a duration sufficient to



reduce or eliminate the patient's viral load of the human herpesvirus.

88 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw. De
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☐ 27. Document ID: US 6410546 B1

L8: Entry 27 of 43

File: USPT

Jun 25, 2002

US-PAT-NO: 6410546

DOCUMENT-IDENTIFIER: US 6410546 B1

TITLE: Use of MKC-442 in combination with other antiviral agents

DATE-ISSUED: June 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Furman; Phillip A.	Durham	NC		
Moxham; Cary P.	Durham	NC		
Barry; David W.	Chapel Hill	NC		
Borroto-Esoda; Katyna	Raleigh	NC		

US-CL-CURRENT: 514/274; 514/253.01, 514/263.4

ABSTRACT:

Use of MKC-442 in combination with other antiviral agents for the treatment of patients infected with HIV is disclosed.

8 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw. De
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☐ 28. Document ID: US 6369207 B1

L8: Entry 28 of 43

File: USPT

Apr 9, 2002

US-PAT-NO: 6369207

DOCUMENT-IDENTIFIER: US 6369207 B1

TITLE: Nucleic acid amplification with DNA-dependent RNA polymerase activity of RNA replicases

DATE-ISSUED: April 9, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dimond; Randall L.	Madison	WI		
Ekenberg; Steven J.	Mt. Horeb	WI		
Hartnett; James R.	Madison	WI		
Hudson; Geoffrey R.	Madison	WI		
Mendoza; Leopoldo G.	Madison	WI		
Miller; Katharine M.	Verona	WI		
Monahan; John E.	Walpole	MA		
Jones; Christopher L.	Madison	WI		
Maffitt; Mark A.	Madison	WI		
Martinelli; Richard A.	Brighton	MA		
Pahuski; Edward E.	Marshall	WI		
Schumm; James W.	Madison	WI		

US-CL-CURRENT: 536/22.1; 536/23.1, 536/24.3, 536/24.33

## ABSTRACT:

The present invention entails methods, and kits for carrying them out, based on the discovery that an RNA replicase, such as Q.beta. replicase, has DNA-dependent RNA polymerase ("DDRP") activity with nucleic acid segments, including DNA segments and DNA:RNA chimeric segments, which comprise a 2'-deoxyribonucleotide or an analog thereof and which have sequences of RNAs that are autocatalytically replicatable by the replicase. The discovery of this DDRP activity provides methods of the invention for nucleic acid amplification wherein a nucleic acid, with a DNA segment with the sequence of an RNA that is autocatalytically replicatable by an RNA replicase, is provided as a substrate for the replicase. The replicase catalyzes synthesis, from the DNA segment, of the RNA, which the replicase then autocatalytically replicates. The invention entails use of the amplification methods in detecting nucleic acid analytes, as in nucleic acid probe hybridization assays. Such assays of the invention include those wherein a nucleic acid analyte is hybridized with one or more nucleic acid probes, which include or are processed to generate a DNA segment which is amplifiable through production from the segment, catalyzed by the DDRP activity of an RNA replicase, of an autocatalytically replicatable RNA, which is autocatalytically replicated to provide an abundance of readily detectable reporter molecules. The invention permits replacement of an RNA, that is autocatalytically replicatable with an RNA replicase and employed as a reporter or label in prior art assays, such as nucleic acid probe hybridization assays or immunoassays, with a nucleic acid comprising a DNA segment with the same base sequence as the RNA. The invention also includes the methods of the invention with Mn.sup.+2, Co.sup.+2, or Zn.sup.+2 in the solutions in which the DDRP activity occurs.

11 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw. De
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☐ 29. Document ID: US 6347633 B1

L8: Entry 29 of 43

File: USPT

Feb 19, 2002

US-PAT-NO: 6347633  
DOCUMENT-IDENTIFIER: US 6347633 B1

TITLE: Treatment of hepatitis C using hyperthermia

DATE-ISSUED: February 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Groth; Karl Emil	St. Paul	MN		
Kelly; Theodore Charles	Minnetonka	MN		
Westerbeck; Todd L.	Burnsville	MN		
Blick; Gary	Stamford	CT		

US-CL-CURRENT: 128/898

ABSTRACT:

The invention provides a method of treating a patient infected with hepatitis C virus (HCV) comprising raising the core temperature of the patient and then returning the core temperature of the patient to normal at least one time, wherein the core temperature is raised to a temperature range and a duration sufficient to reduce or eliminate the patient's viral load of HCV.

107 Claims, 6 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Knowl	Draw. De
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☐ 30. Document ID: US 6309632 B1

L8: Entry 30 of 43

File: USPT

Oct 30, 2001

US-PAT-NO: 6309632  
DOCUMENT-IDENTIFIER: US 6309632 B1

TITLE: Methods for treating HIV-infected patients by administering GM-CSF

DATE-ISSUED: October 30, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Agosti; Jan M.	Seattle	WA		

US-CL-CURRENT: 424/85.1; 424/85.2, 514/235.5, 514/45, 514/49, 514/50

ABSTRACT:

Provided are methods for reducing the HIV viral load in HIV-infected patients by administering human GM-CSF. The GM-CSF is administered in conjunction with at least two nucleoside reverse transcriptase inhibitors.

14 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw. De
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☐ 31. Document ID: US 6300069 B1

L8: Entry 31 of 43

File: USPT

Oct 9, 2001

US-PAT-NO: 6300069  
DOCUMENT-IDENTIFIER: US 6300069 B1

TITLE: Generation and amplification of nucleic acids from ribonucleic acids

DATE-ISSUED: October 9, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Missel; Andreas	Dusseldorf			DE
Loffert; Dirk	Dusseldorf			DE
Kang; Jie	Mettmann			DE
Korfhage; Christian	Langenfeld			DE

US-CL-CURRENT: 435/6; 435/183, 435/91.1, 536/23.1, 536/24.33

ABSTRACT:

Novel compositions and methods useful for the generation of nucleic acids from a ribonucleic acid template and further nucleic acid replication are disclosed. It is shown that the generation and amplification of nucleic acids by methods that utilize two or more different polymerases, such as reverse transcriptase-polymerase chain reaction (RT-PCR), are dramatically more sensitive and efficient in the presence of a homopolymeric nucleic acid. Homopolymeric nucleic acids have been found to reduce or negate the inhibitory effect reverse transcriptases have on DNA polymerase activity. It is demonstrated that this inhibition-relieving effect of homopolymeric nucleic acids is general in nature; independent of the chemical species of homopolymer used, or the chemical composition of the polymerization reaction mixture.

45 Claims, 6 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw. De
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☐ 32. Document ID: US 6287765 B1

L8: Entry 32 of 43

File: USPT

Sep 11, 2001

US-PAT-NO: 6287765

DOCUMENT-IDENTIFIER: US 6287765 B1

TITLE: Methods for detecting and identifying single molecules

DATE-ISSUED: September 11, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cubicciotti; Roger S.	Montclair	NJ		

US-CL-CURRENT: 435/6; 435/91.2, 536/22.1, 536/23.1, 536/24.3, 536/24.5

## ABSTRACT:

Multimolecular devices and drug delivery systems prepared from synthetic heteropolymers, heteropolymeric discrete structures, multivalent heteropolymeric hybrid structures, aptameric multimolecular devices, multivalent imprints, tethered specific recognition devices, paired specific recognition devices, nonaptameric multimolecular devices and immobilized multimolecular structures are provided, including molecular adsorbents and multimolecular adherents, adhesives, transducers, switches, sensors and delivery systems. Methods for selecting single synthetic nucleotides, shape-specific probes and specifically attractive surfaces for use in these multimolecular devices are also provided. In addition, paired nucleotide-nonnucleotide mapping libraries for transposition of selected populations of selected nonoligonucleotide molecules into selected populations of replicatable nucleotide sequences are described.

27 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw D
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☐ 33. Document ID: US 6090589 A

L8: Entry 33 of 43

File: USPT

Jul 18, 2000

US-PAT-NO: 6090589

DOCUMENT-IDENTIFIER: US 6090589 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Nucleic acid amplification with DNA-dependent RNA polymerase activity of RNA replicases

DATE-ISSUED: July 18, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dimond; Randall L.	Madison	WI		
Ekenberg; Steven J.	Mt. Horeb	WI		
Hartnett; James R.	Madison	WI		
Hudson; Geoffrey R.	Madison	WI		
Mendoza; Leopoldo G.	Conroe	TX		

Miller; Katharine M.	Verona	WI
Monahan; John E.	Walpole	MA
Jones; Christopher L.	Madison	WI
Maffitt; Mark A.	Madison	WI
Martinelli; Richard A.	Brighton	MA
Pahuski; Edward E.	Marshall	WI
Schumm; James W.	Madison	WI

US-CL-CURRENT: 435/91.1; 435/6, 435/91.21, 536/22.1, 536/24.3, 536/24.33, 536/25.4

## ABSTRACT:

The present invention entails methods, and kits for carrying them out, based on the discovery that an RNA replicase, such as Q.beta. replicase, has DNA-dependent RNA polymerase ("DDRP") activity with nucleic acid segments, including DNA segments and DNA:RNA chimeric segments, which comprise a 2'-deoxyribonucleotide or an analog thereof and which have sequences of RNAs that are autocatalytically replicatable by the replicase. The discovery of this DDRP activity provides methods of the invention for nucleic acid amplification wherein a nucleic acid, with a DNA segment with the sequence of an RNA that is autocatalytically replicatable by an RNA replicase, is provided as a substrate for the replicase. Assays of the invention include those wherein a nucleic acid analyte is hybridized with one or more nucleic acid probes, which include or are processed to generate a DNA segment which is amplifiable through production from the segment, catalyzed by the DDRP activity of an RNA replicase, of an autocatalytically replicatable RNA, which is autocatalytically replicated to provide an abundance of readily detectable reporter molecules.

121 Claims, 11 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGURE	Draw. De
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☐ 34. Document ID: US 5935976 A

L8: Entry 34 of 43

File: USPT

Aug 10, 1999

US-PAT-NO: 5935976

DOCUMENT-IDENTIFIER: US 5935976 A

TITLE: Antiviral ethers of aspartate protease substrate isosteres

DATE-ISSUED: August 10, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bold; Guido	Gipf-Oberfrick			CH
Capraro; Hans-Georg	Rheinfelden			CH
Fassler; Alexander	Oberwil			CH
Lang; Marc	Mulhouse			FR

Bhagwat; Shripad Subray	Libertyville	IL	
Khanna; Satish Chandra	Bottmingen		CH
Lazdins; Janis Karlis	Basel		CH
Mestan; Jurgen	Denzlingen		DE

US-CL-CURRENT: 514/346; 546/291

## ABSTRACT:

Antiretroviral compounds (which are effective, for example, against HIV) of the formula I ##STR1## in which R.sub.1 is an acyl radical lower-alkoxy-lower-alkanoyl whose lower alkoxy radical is unsubstituted or is substituted by halogen, phenyl, lower alkoxy or a heterocyclic radical selected from piperidinyl, pyrrolidinyl, tetrahydropyranyl, tetrahydrofuranyl, thiazolidinyl, thiazolyl, indolyl or 4H-1-benzopyranyl which is unsubstituted or substituted by oxo, hydroxyl, amino, lower alkyl, lower-alkoxycarbonyl and/or phenyl-lower-alkoxycarbonyl; lower alkanoyl which is unsubstituted or is substituted by one of the said unsubstituted or substituted heterocyclic radicals; arylcarbonyl or heterocyclylcarbonyl which are substituted by heterocyclyl or heterocyclyl-lower-alkyl; phenyl-lower-alkanoyl which is substituted by hydroxyl and lower alkyl; or arylsulfonyl;

or the residue of an amino acid which is defined in accordance with the description (and which may be acylated on the amino nitrogen by one of the abovementioned acyl radicals);

R.sub.2 and R.sub.3 are in each case cyclohexyl, cyclohexenyl, phenyl, naphthyl or tetrahydronaphthyl which are unsubstituted or substituted by lower alkyl, phenyl, cyanophenyl, phenyl-lower-alkyl, halogen, halo-lower-alkyl, cyano, hydroxyl, lower alkoxy, phenyl-lower-alkoxyl, pyridyl-lower-alkoxy, lower-alkoxy-lower-alkoxy, lower-alkoxycarbonyl-lower-alkoxy, carboxyl-lower-alkoxy, hydroxyl-lower-alkoxy, carbamoyl-lower-alkoxy, cyano-lower-alkoxy, and phenyl-lower-alkanesulfonyl which is unsubstituted or substituted by halogen;

R.sub.4 is lower alkyl, cyclohexyl or phenyl; and R.sub.5 is lower alkyl; and n is 1 or 2,

or salts thereof, are novel.

10 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 35. Document ID: US 5866333 A

L8: Entry 35 of 43

File: USPT

Feb 2, 1999

US-PAT-NO: 5866333

DOCUMENT-IDENTIFIER: US 5866333 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Screening methods to detect mRNA targets of editing enzymes

DATE-ISSUED: February 2, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Innerarity; Thomas L.	Lafayette	CA		
Qian; Xiaobing	San Francisco	CA		
Yamanaka; Shinya	San Francisco	CA		

US-CL-CURRENT: 435/6; 435/91.2, 536/24.33

## ABSTRACT:

The expression of APOBEC-1 in the liver of transgenic mice can cause liver dysplasia and liver tumors, and the expression of human APOBEC-1 in the intestine, stomach, or brain can cause obesity. Promiscuous editing of other mRNAs is correlated to these phenotypic changes. The instant invention discloses novel techniques for detecting aberrantly edited mRNAs, and hence, genes responsible for non-wild type phenotypes.

9 Claims, 7 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KOMIC	Drawing
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☐ 36. Document ID: US 5807891 A

L8: Entry 36 of 43

File: USPT

Sep 15, 1998

US-PAT-NO: 5807891

DOCUMENT-IDENTIFIER: US 5807891 A

TITLE: Antiviral ethers of aspartate protease substrate isosteres

DATE-ISSUED: September 15, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bold; Guido	Gipf-Oberfrick			CH
Capraro; Hans-Georg	Rheinfelden			CH
Fassler; Alexander	Oberwil			CH
Lang; Marc	Mulhouse			FR
Bhagwat; Shripad Subray	Libertyville	IL		
Khanna; Satish Chandra	Bottmingen			CH
Lazdins; Janis Karlis	Basel			CH
Mestan; Jurgan	Denzlingen			DE

US-CL-CURRENT: 514/487; 514/479, 546/221, 548/168, 560/27

## ABSTRACT:

Antiretroviral compounds (which are effective, for example, against HIV) of the formula I ##STR1## in which R.sub.1 is an acyl radical lower-alkoxy-lower-alkanoyl



whose lower alkoxy radical is unsubstituted or is substituted by halogen, phenyl, lower alkoxy or a heterocyclic radical selected from piperidinyl, pyrrolidinyl, tetrahydropyranyl, tetrahydrofuranyl, thiazolidinyl, thiazolyl, indolyl or 4H-1-benzopyranyl which is unsubstituted or substituted by oxo, hydroxyl, amino, lower alkyl, lower-alkoxycarbonyl and/or phenyl-lower-alkoxycarbonyl; lower alkanoyl which is unsubstituted or is substituted by one of the said unsubstituted or substituted heterocyclic radicals; arylcarbonyl or heterocyclylcarbonyl which are substituted by heterocyclyl or heterocyclyl-lower-alkyl; phenyl-lower-alkanoyl which is substituted by hydroxyl and lower alkyl; or arylsulfonyl;

or the residue of an amino acid which is defined in accordance with the description (and which may be acylated on the amino nitrogen by one of the abovementioned acyl radicals);

R.sub.2 and R.sub.3 are in each case cyclohexyl, cyclohexenyl, phenyl, naphthyl or tetrahydronaphthyl which are unsubstituted or substituted by lower alkyl, phenyl, cyanophenyl, phenyl-lower-alkyl, halogen, halo-lower-alkyl, cyano, hydroxyl, lower alkoxy, phenyl-lower-alkoxyl, pyridyl-lower-alkoxy, lower-alkoxy-lower-alkoxy, lower-alkoxycarbonyl-lower-alkoxy, carboxyl-lower-alkoxy, hydroxyl-lower-alkoxy, carbamoyl-lower-alkoxy, cyano-lower-alkoxy, and phenyl-lower-alkanesulfonyl which is unsubstituted or substituted by halogen;

R.sub.4 is lower alkyl, cyclohexyl or phenyl; and R.sub.5 is lower alkyl; and n is 1 or 2, or salts thereof, are novel.

13 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC	Draw. No.
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☐ 37. Document ID: US 5663200 A

L8: Entry 37 of 43

File: USPT

Sep 2, 1997

US-PAT-NO: 5663200

DOCUMENT-IDENTIFIER: US 5663200 A

TITLE: Antiviral ethers of aspartate protease substrate isosteres

DATE-ISSUED: September 2, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bold; Guido	Gipf-Oberfrick			CH
Capraro; Hans-Georg	Rheinfelden			CH
Fassler; Alexander	Oberwil			CH
Lang; Marc	Mulhouse			FR
Bhagwat; Shripad Subray	Libertyville	IL		
Khanna; Satish Chandra	Bottmingen			CH
Lazdins; Janis Karlis	Basel			CH
Mestan; Jurgen	Denzlingen			DE

US-CL-CURRENT: 514/487; 514/479, 544/168, 546/221, 548/200, 560/27

## ABSTRACT:

Antiretroviral compounds (which are effective, for example, against HIV) of the formula I ##STR1## in which R.sub.1 is an acyl radical lower-alkoxyl-lower-alkanoyl whose lower alkoxy radical is unsubstituted or is substituted by halogen, phenyl, lower alkoxy or a heterocyclic radical selected from piperidinyl, pyrrolidinyl, tetrahydropyranyl, tetrahydrofuranyl, thiazolidinyl, thiazolyl, indolyl or 4H-1-benzopyranyl which is unsubstituted or substituted by oxo, hydroxyl, amine, lower alkyl, lower-alkoxycarbonyl and/or phenyl-lower-alkoxycarbonyl; lower alkanoyl which is unsubstituted or is substituted by one of the said unsubstituted or substituted heterocyclic radicals; arylcarbonyl or heterocyclylcarbonyl which are substituted by heterocyclyl or heterocyclyl-lower-alkyl; phenyl-lower-alkanoyl which is substituted by hydroxyl and lower alkyl; or arylsulfonyl;

or the residue of an amino acid which is defined in accordance with the description (and which may be acylated on the amino nitrogen by one of the abovementioned acyl radicals);

R.sub.2 and R.sub.3 are in each case cyclohexyl, cyclohexenyl, phenyl, naphthyl or tetrahydronaphthyl which are unsubstituted or substituted by lower alkyl, phenyl, cyanophenyl, phenyl-lower-alkyl, halogen, halo-lower-alkyl, cyano, hydroxyl, lower alkoxy, phenyl-lower-alkoxyl, pyridyl-lower-alkoxy, lower-alkoxy-lower-alkoxy, lower-alkoxycarbonyl-lower-alkoxy, carboxyl-lower-alkoxy, hydroxyl-lower-alkoxy, carbamoyl-lower-alkoxy, cyano-lower-alkoxy, and phenyl-lower-alkanesulfonyl which is unsubstituted or substituted by halogen;

R.sub.4 is lower alkyl, cyclohexyl or phenyl; and R.sub.5 is lower alkyl; and n is 1 or 2, or salts thereof, are novel.

11 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KOMC	Draw De
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☐ 38. Document ID: US 5434066 A

L8: Entry 38 of 43

File: USPT

Jul 18, 1995

US-PAT-NO: 5434066

DOCUMENT-IDENTIFIER: US 5434066 A

TITLE: Modulation of CRE recombinase in the in vivo cloning of DNA

DATE-ISSUED: July 18, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bebee; Robert L.	Gaithersburg	MD		
Hartley; James L.	Frederick	MD		

US-CL-CURRENT: 435/475; 435/252.3, 435/252.33, 435/476

## ABSTRACT:

Methods and recombinant vectors suitable for accomplishing the in vivo alteration of a nucleic acid molecule are disclosed. The invention in particular discloses the use of recombinases such as Cre to accomplish in vivo recombination.

7 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 39. Document ID: US 5104792 A

L8: Entry 39 of 43

File: USPT

Apr 14, 1992

US-PAT-NO: 5104792

DOCUMENT-IDENTIFIER: US 5104792 A

TITLE: Method for amplifying unknown nucleic acid sequences

DATE-ISSUED: April 14, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silver; Jonathan	Bethesda	MD		
Feinstone; Stephen	Washington	DC		

US-CL-CURRENT: 435/6; 536/23.1, 536/24.33

ABSTRACT:

A modification of the PCR technique is described which allows fragments of RNA or DNA to be amplified without prior knowledge of their sequence. The technique can be used to amplify viral nucleic acids present in small amounts in clinical material allowing, for example, the diagnosis of a particular virus infection or the discovery of new viruses.

1 Claims, 2 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 40. Document ID: EP 1050587 A2

L8: Entry 40 of 43

File: EPAB

Nov 8, 2000

PUB-NO: EP001050587A2

DOCUMENT-IDENTIFIER: EP 1050587 A2

TITLE: Generation and amplification of nucleic acids from ribonucleic acids

PUBN-DATE: November 8, 2000

## INVENTOR-INFORMATION:

NAME	COUNTRY
MISSEL, ANDREAS	DE
LOEFFERT, DIRK	DE
KANG, JIE	DE
KORFHAGE, CHRISTIAN	DE

INT-CL (IPC): C12 Q 1/68; C12 N 15/10

EUR-CL (EPC): C12N015/10

## ABSTRACT:

CHG DATE=20001202 STATUS=O> Novel compositions and methods useful for the generation of nucleic acids from a ribonucleic acid template and further nucleic acid replication are disclosed. It is shown that the generation and amplification of nucleic acids by methods that utilize two or more different polymerases, such as reverse transcriptase-polymerase chain reaction (RT-PCR), are dramatically more sensitive and efficient in the presence of a homopolymeric nucleic acid. Homopolymeric nucleic acids have been found to reduce or negate the inhibitory effect reverse transcriptases have on DNA polymerase activity. It is demonstrated that this inhibition-relieving effect of homopolymeric nucleic acids is general in nature; independent of the chemical species of homopolymer used, or the chemical composition of the polymerization reaction mixture.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC	Draw. De
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☐ 41. Document ID: EP 979650 A1

**Using default format because multiple data bases are involved.**

L8: Entry 41 of 43

File: EPAB

Feb 16, 2000

PUB-NO: EP000979650A1

DOCUMENT-IDENTIFIER: EP 979650 A1

TITLE: ANTIVIRAL AGENTS

PUBN-DATE: February 16, 2000

INVENTOR-INFORMATION:

NAME

COUNTRY

YUASA, SATOSHI

JP

INT-CL (IPC): [A61 K 31/505](#); [A61 K 31/52](#); [A61 K 31/675](#); [A61 K 31/70](#)

EUR-CL (EPC): A61K031/505; A61K031/52, A61K045/06

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	References	Claims	KWIC	Draw De
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☐ 42. Document ID: EP 878194 A1

L8: Entry 42 of 43

File: EPAB

Nov 18, 1998

PUB-NO: EP000878194A1

DOCUMENT-IDENTIFIER: EP 878194 A1

TITLE: REMEDIES OR PREVENTIVES FOR AIDS

PUBN-DATE: November 18, 1998

INVENTOR-INFORMATION:

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INT-CL (IPC): [A61 K 31/445](#)

EUR-CL (EPC): A61K031/70; A61K038/55, C07D215/56

## ABSTRACT:

CHG DATE=19990905 STATUS=O> The present invention is to provide the combined use of one kind or two or more kinds of a quinolone carboxylic acid having anti-HIV activity and one kind or two or more kinds of a reverse transcriptase inhibitor or HIV protease inhibitor, and an AIDS therapeutic agent or preventive agent containing as its active ingredients one kind or two or more kinds of a quinolone carboxylic acid having anti-HIV activity and one kind or two or more kinds of a reverse transcriptase inhibitor or HIV protease inhibitor.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw. Des
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☐ 43. Document ID: US 20020055095 A1, US 6582920 B2

L8: Entry 43 of 43

File: DWPI

May 9, 2002

DERWENT-ACC-NO: 2002-462902

DERWENT-WEEK: 200406

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TITLE: New nucleic acid oligomers for amplifying a nucleotide sequence from HIV-1 and probes for detecting the amplified product are specific for gag and pol regions and are useful to detect different subtypes of HIV-1

INVENTOR: BABOLA, O; BRENTANO, S T ; TRAN, N ; VERNET, G ; YANG, Y Y

PRIORITY-DATA: 2000US-229790P (September 1, 2000), 2001US-0944036 (August 31, 2001)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20020055095 A1</u>	May 9, 2002		019	C12Q001/70
<u>US 6582920 B2</u>	June 24, 2003		000	C12Q001/68

INT-CL (IPC): C07 H 21/02; C07 H 21/04; C12 Q 1/68; C12 Q 1/70

ABSTRACTED-PUB-NO: US20020055095A

## BASIC-ABSTRACT:

NOVELTY - Nucleic acid oligomers for amplifying a nucleotide sequence of HIV-1 are new.

DETAILED DESCRIPTION - The nucleic acid oligomer for amplifying a nucleotide sequence from HIV-1, comprises a 50, 22, 54 or 22 nucleotide sequence fully defined in the specification.

INDEPENDENT CLAIMS are also included for the following:

(1) a labeled oligonucleotide that specifically hybridizes to an HIV-1 sequence derived from gag or pol sequences, having one of the sequences fully defined in the specification; and

(2) detecting HIV-1 in a biological sample, comprising mixing the sample with two or more of the claimed amplification oligomers that specifically amplify at least

one HIV-1 target sequence within gag and a pol sequence which is a protease or reverse transcriptase sequence, amplifying the target, and detecting the amplified product.

USE - The invention is used to diagnose HIV-1 infection.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	EMMC	Draw. D
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Terms	Documents
two adj2 more adj20 reverse transcriptase	43

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)